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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

CLARKE et al.

Atty. Ref.: 839-1550

Serial No. 10/820,039

TC/A.U.: unknown

Filed: April 8, 2004

Examiner: Unknown

For: RUGGEDIZED SCINTILLATION DETECTOR WITH LOW  
ENERGY DETECTION CAPABILITIES

\* \* \* \* \*

May 20, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**SUBMISSION OF EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY**

Attached is the originally executed Exclusive Substitute Power of Attorney for the  
above-identified application.

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By:

Michael J. Keenan

Reg. No. 32,106

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY  
AND EXCLUSIVE PROSECUTION HEREAFTER BY  
ASSIGNEE UNDER 37 C.F.R. §§ 1.36, 3.71 AND 3.73**

The undersigned being the owner of all right, title and interest in the above-identified patent application, hereby revokes all previous powers of attorney in this case, if any, and hereby appoints the attorneys of **Customer Number 30024** individually and collectively its attorneys to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith, and with the resulting patent.

I also authorize Nixon & Vanderhye to act and rely solely on instructions communicated from the person, attorney, firm or other organization sending instructions to Nixon & Vanderhye on behalf of the owner.

**Certificate Under 37 C.F.R. §3.73(b)**

I hereby certify that General Electric Company of 1 River Road, Schenectady, NY 12345 is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached.

I have reviewed the documents in the chain of title of the patent application identified above, and to the best of my knowledge and belief, title is in the aforesaid assignee for which I am empowered to act in this matter.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

**GENERAL ELECTRIC COMPANY**

May 11, 2004 By: Ernest G. Cusick  
Date Name: Ernest G. Cusick  
Title: Patent Counsel

**ASSIGNMENT**

In accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and/or for other good and valuable consideration of which we acknowledge receipt, we, Lucas Lemar Clarke, James R. Williams, Brian Palmer, Jeffrey Louis Johanning, Keith David Jones, and Andrew Shalhoub of 2421 Marlborough Drive, Uniontown, Ohio 44685; 3849 Bethany Road, University Heights, Ohio 44118; 2200 Pebble Creek Drive, Apt. 101-C, Twinsburg, Ohio 44087; 57 Ambrose Drive, Hudson, Ohio 44236; 820 Sioux Lane, Macedonia, Ohio 44056; and 9973 Darrow Park Dr., Apt. 114C, Twinsburg, Ohio 44087; hereby sell and assign to General Electric Company, a New York Corporation, having an address at 1 River Road, Schenectady, New York 12345, USA, (hereinafter referred to as "Company"), its successors and assigns our entire respective right(s), title(s) and interest(s) in and to the invention and improvements invented and originated by us and described in the application for United States Patent currently entitled RUGGEDIZED SCINTILLATION DETECTOR WITH LOW ENERGY DETECTION CAPABILITIES and 148401

- ☒ signed as of even date,  
☐ signed as of \_\_\_\_\_, or  
☐ filed on \_\_\_\_\_ having Serial Number \_\_\_\_\_

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.



Lucas Lemar Clarke

4-7-04

Date

Witnessed by:

Name: Douglas D. Byrd Date: 7 APR 2004  
 Signature of witness

DOUGLAS S. BYRD  
 Printed name of witness

Name: AHMED SABET Date: 7 APR 2004  
 Signature of witness

AHMED I. SABET  
 Printed name of witness

STATE OF Ohio

ss):

COUNTY OF Summit

This 7<sup>th</sup> day of April, 2004, before me personally came the above-named, Lucas Lemar Clarke, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Virginia T. Young  
 Notary Public

My Commission Expires: \_\_\_\_\_

Virginia T. Young  
 Notary Public - State of Ohio  
 My Commission Expires March 31, 2005  
 Recorded in Summit County

[Signature]  
James R. Williams

4-7-04  
Date

Witnessed by:

Name: Douglas D. Byrd Date: 7 <sup>APR</sup> 2004  
Signature of witness

DOUGLAS S. BYRD  
Printed name of witness  
Name: [Signature] Date: 7 APR 2004  
Signature of witness

AHMED SABET  
Printed name of witness

STATE OF Ohio

ss):

COUNTY OF Summit

This 7<sup>th</sup> day of April, 2004, before me personally came the above-named, James R. Williams, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Virginia Young  
Notary Public

My Commission Expires: \_\_\_\_\_

Virginia T. Young  
Notary Public - State of Ohio  
My Commission Expires March 31, 2005  
Recorded in Summit County

Brian M Palmer

Brian Palmer

4/7/04

Date

Witnessed by:

Name:

Douglas S. Byrd

Signature of witness

Date:

7 <sup>APR</sup> ~~MAR~~ 2004DOUGLAS S. BYRD

Printed name of witness

Name:

Alfred Sabet

Signature of witness

Date:

7 APR 2004ALFRED SABET

Printed name of witness

STATE OF Ohio

ss):

COUNTY OF Summit

This 7<sup>th</sup> day of April, 2004, before me personally came the above-named, Brian Palmer, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Virginia T. Young

Notary Public

My Commission Expires: \_\_\_\_\_

Virginia T. Young  
Notary Public - State of Ohio  
My Commission Expires March 31, 2005  
Recorded in Summit County

Jeffrey Louis Johanning  
Jeffrey Louis Johanning

4-7-04

Date

Witnessed by:

Name:

Douglas S. Byrd

Signature of witness

Date:

7 <sup>APR</sup> ~~MAR~~ 2004

DOUGLAS S. BYRD

Printed name of witness

Name:

AHMED SABET

Signature of witness

Date:

7 APR 2004

AHMED SABET

Printed name of witness

STATE OF Ohio

ss):

COUNTY OF Summit

This 7<sup>th</sup> day of April, 2004, before me personally came the above-named, Jeffrey Louis Johanning, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Virginia T. Young  
Notary Public

My Commission Expires: \_\_\_\_\_

Virginia T. Young  
Notary Public - State of Ohio  
My Commission Expires March 31, 2005  
Recorded in Summit County

Keith David Jones  
 Keith David Jones

4-7-2004  
 Date

Witnessed by:

Name: Douglas S. Byrd  
 Signature of witness

Date: APR 7 2004

DOUGLAS S. BYRD  
 Printed name of witness

Name: Ahmed Sabet  
 Signature of witness

Date: 7 APR 2004

AHMED SABET  
 Printed name of witness

STATE OF Ohio

ss):

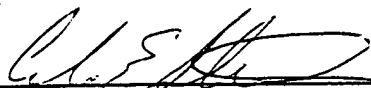
COUNTY OF Summit

This 7<sup>th</sup> day of April, 2004, before me personally came the above-named, Keith David Jones, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Virginia T. Young  
 Notary Public

My Commission Expires: \_\_\_\_\_

Virginia T. Young  
 Notary Public - State of Ohio  
 My Commission Expires March 31, 2005  
 Recorded in Summit County



Andrew Shalhoub

4-7-2004

Date

Witnessed by:

Name:



Signature of witness

Date:

7 <sup>APR</sup> ~~APR~~ 2004

DOUGLAS S. BYRD

Printed name of witness

Name:



Signature of witness

Date:

7 APR 2004

AHMED SABET

Printed name of witness

STATE OF

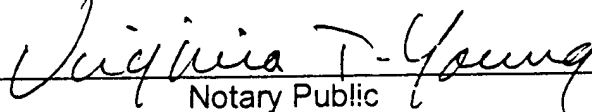
Ohio

ss):

COUNTY OF

Summit

This 7<sup>th</sup> day of April, 2004, before me personally came the above-named, Andrew Shalhoub, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.



Notary Public

My Commission Expires:

Virginia T. Young  
Notary Public - State of Ohio  
My Commission Expires March 31, 2005  
Recorded in Summit County